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UPGRADING AND EXPANSION OF PHARMACEUTICAL PRODUCTION IN CAPE VERDE

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CAPE VERDE

Technical report: Findings and recommendations*

Prepared for the Government of the Republic of Cape Verde by the United Nations Industrial Development Organization

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^{*} This document has not been edited.

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ANNEXES

I. CONCLUSIONS

The first part of the mission was aimed at establishing the correct procedures for ascertaining the cost of sales at INPHARMA.

With that purpose in mind, one had obviously to set up the appropriate methodology for estimating the direct labour cost, the direct material cost and a fair share of the indirect production cost.

This took us to the concept of inventory cost, being the cost at which completed goods are carried as inventory and also the amount that is shown as cost of goods sold when the goods are sold.

It was also highlighted the importance of recognising that the cost at which goods are carried in inventory does not include distribution costs, or those general and administrative costs that are unrelated to production operations.

The concepts of variable, semi-variable and fixed costs were also illustrated.

We have also recommended the adoption of a process costing system for the new factory (under construction) - as opposed to job-order - and the rationale for this choice was given.

Secondly, the issue of planning was also considered as of critical importance, particularly if ones takes into consideration the fact that INPHARMA is presently building new facilities and also a new organizational set-up must be adopted from scratch.

With such concerns in mind, the UNIDO's consultant prepared several maps making full use of the personal computer (<u>see annexes</u>), and briefly trained INPHARMA' selected staff on these modern techniques.

Price setting was also considered as a major issue during the course of the whole mission, as most of INPHARMA's production is going to be sold to one customer only, i.e. EMPROFAC (which as a matter of fact is also a major shareholder).

It was agreed that there are three major considerations in price setting:

- i) full costs set a floor to the price;
- ii) competitors' prices and the price of substitutes provide an orienting point that INPHARMA has to

consider in setting its price; and

iii) customers' assessment of unique product features in INPHARMA's offer establish the ceiling price.

Then, the traditional method currently being adopted at INPHARMA - i.e. mark-up pricing - was proved and questioned. With this method, a standard mark-up, to cover the cost of production, distribution and selling the product, including a fair return for effort and risk, is normally added to the cost of the product (see page 18).

Specific objections to this method were raised - such as the fact that it ignores current demand, perceived value of the product and competition. Furthermore, it only works properly if that mark-up price actually brings in the expected level of sales.

Nevertheless, this method was not rejected outright, because it remains popular for a number of reasons:

- Sellers have more certainty about costs than about demand. By tying the price to cost, sellers do not have to make frequent adjustments as demand changes.
- 2. Where all firms in the industry use this pricing method, their prices tend to be similar.
- 3. Many people feel that cost-plus pricing is fairer to both buyers and sellers, particularly in the pharmaceutical industry, where sellers could take advantage of buyers when the latter's demand becomes acute.

Indeed, the several analysis described in the maps of the Annexes have been based on mark-up pricing (of 20 %), and national (mark-up) prices were compared against international ones in the Portuguese generics market.

Finally, recommendations were made concerning alternative pricing methods, which in the consultant's opinion will provide INPHARMA with improved decision-making: going-rate pricing, sealed-bid pricing and perceived-value pricing (see Chapter 8, pages 19 and 20).

If any of these pricing methods are eventually adopted at INPHARMA, marketing costs and general and administrative costs are simply not imputed to the individual products, as the main criteria for setting prices would be current demand, perceived value of the product and competition - and not internal costs!

II. THE PREPARATORY MISSION

1. BACKGROUND

At present, the only enterprise manufacturing pharmaceutical products in Cape Verde is EMPROFAC - Empresa Nacional de Productos Farmacéuticos. In fact, since 1983 that this state-owned company has been gradually contributing for reducing the country's dependency from foreign suppliers of pharmaceuticals, to such an extent that already in 1988, 30 % of the country's needs were met by local production.

At the time, authorities at EMPROFAC realized that, although capacity utilization of its existing equipment was rather low (less than 50 % for tablets and capsules and about 30 % for all other galenical forms), the company was reaching virtually full capacity utilization of the building infrastructures which were granted by Praia Central Hospital since its inception.

Furthermore, not only internal market needs were not being met, but also the possibilities of exporting pharmaceuticals for neighbouring and Portuguese-speaking African countries simply had to be ignored.

In 1991, and as a result of these considerations, a decision was reached to create a new enterprise, with both private and state funds, which would acquire EMPROFAC's existing equipment and use them in new, modern premises, without the bottlenecks which were present at Praia Central Hospital.

This new company was called Laboratorios INPHARMA, and it is mainly the outcome of a mutually beneficial relationship between EMPROFAC and Laboratorios LABESFAL for many years - the latter being a privately-owned Portuguese generics company, based in the district of Viseu, in Portugal.

In this new organisation, LARESFAL gains from getting a foothold in the Cape Verde internal market, and the State (EMPROFAC) gains from its partner's international marketing know-how and experience in overseas markets for generics.

Besides INPHARMA's main two shareholders - EMPROFAC owns 40 % of the shares and LABESFAL another 40 % - the local private sector is also well represented with the remaining 20 % of the total shares. The total value of the issued share capital is 50.000 CV Contos.

In the new set-up, EMPROFAC will still be responsible for importing and distributing drugs (both the locally-produced and the imported ones) in the internal market; and INPHARMA will produce drugs essentially for the local market, but by the end of the decade, it is foreseen that will export roughly US \$ 2,5

million, mainly to Angola, Guinea-Bissau, Mozambique and neighbouring countries.

The range of products to be monufactured by INPHARMA is very wide, as roughly sixty products have been selected from Cape Verde's essential drug list, and include tablets, capsules, syrups, suspensions, creams, suppositories and ovules.

All active ingredients, excipient and packaging materials, will be imported through international bidding criteria.

When the team of consultants from UNIDO arrived at the scene during the month of July, the construction of the new factory was progressing at a good pace, and it was being foreseen to initiate production still during the course of the current year - although with some delay in relation to previous forecasts.

2. OBJECTIVES

During the initial contacts between INPHARMA's Managing Director and UNIDO's Financial and Market Analyst, both realized that, due to the particular and unique circumstances under which Laboratorios INPHARMA was operating at the time, other, more pressing objectives for its mission (of three weeks) had to be established.

Some of the circumstances were the following:

- a. INPHARMA had recently exported successfully an order worth roughly US \$700 000 to Angola, in which the role of manufacturing the goods was carried out by EMPROFAC, and INPHARMA negotiated the deal; more similar transactions were foreseen in the near future.
- b. Sensitive negotiations between EMPROFAC and INPHARMA were imminent at the time, concerning future pricing policies between the two organizations, which required accurate and detailed information about international current pricing structures for drugs, as well a thorough understanding of what INPHARMA's internal cost structure will be, when the new factory is built and fully operational.

As a result of such considerations, Mrs. Judith Lima - INPHARMA's Managing Director - approved the following (revised) objectives for the mission of the UNIDO's Financial and Market Analyst:

 To evaluate current prices of generic drugs in the international markets, and in particular the prices of the ones in the essential drug list;

- To estimate INPHARMA's internal full cost structure, and ascertain whether it is competitive in the international generics market;
- To revise/improve the existing methodology of treating industrial costs;
- 4. To introduce more modern, computerized techniques for planning and controlling INPHARMA's business; and
- 5. To provide training on the new techniques developed on the personal computer to INPHARMA' selected staff.

3. CONSTRAINTS

Both INPHARMA's Managing Director and UNIDO's consultant recognized that the original assigned objectives for the mission — i.e. to address the specific requirements of the country in order to upgrade its pharmaceutical industry, stressing the relevant aspects, national demand market for PALOP countries, quality requirements, new production techniques and economic aspects — could not be met in the allocated time of three weeks.

The required information for addressing the issue of estimating the national demand market for neighbouring and Portuguese-speaking African countries, could not be obtained without travelling to such countries, as the local state organisation which encourages exports (i.e. PROMEX) did not have any relevant information about the pharmaceutical sector of the selected potential markets.

Attempts were conducted by the UNIDO's consultant to obtain some information about market size and market growth in those selected countries through the enterprise I.M.S., which owns an international pharmaceutical database in London, for both the private and public sectors.

However, it was found out (through LABESFAL) later on that I.M.S. does not have complete and reliable information about those selected countries.

4. ACTIVITIES UNDERTAKEN AND NEW METHODS PROPOSED

The mission started by a tour to the factory which is presently under construction, guided by INPHARMA's Managing Director herself. Both UNIDO's Financial and Pharmaceutical consultants took the opportunity for raising several questions and requesting additional information, which was provided mostly in the following day.

Thereafter, several meetings took place between INPHARMA'S M.D. and UNIDO's Financial & Market Analyst, in order to establish clearly what the objectives of the mission should be. During the course of this initial process, the above-mentioned consultant was also requested to comment on the appropriate methods and procedures for the valuation of equipment - which were to be acquired from the state-owned enterprise EMPROFAC - and provide personal computer training to INPHARMA' selected staff on the use of spreadsheet software (Lotus 123) in calculating prices for raw materials and packaging materials.

In the meantime, a fax was sent to LABESFAL, requesting them to contact I.M.S. in London (or in Lisbon), for the purpose of ascertaining whether relevant and updated market information about the selected countries was available or not!

On Monday, 12th July, it was agreed that it would be extremely helpful for INPHARMA to have a computerized planning model, allowing the conduction of "what-if" analysis in the near future. Then, the UNIDO's consultant spent the whole week preparing such model in the personal computer, making use of spreadsheet software. Several updates were made, always discussing fully the implications of each version with INPHARMA's M.D., and listening and incorporating all recommendations. The outputs of such planning model are shown in the annex I, where it can be seen as the new proposed methodology of separating marketing costs, and general and administrative costs from industrial costs, in the planning process.

During the third (and final week), it was decided to develop the computerized model described in the annexes II and III, as a result from the fact that full production costs at INPHARMA had to be equated against current pricing practices and international pricing practices, particularly as far as its product list is concerned. Furthermore, it was also recognized that the planning process to be adopted at INPHARMA for the following year had to be very detailed (i.e. per product and pack size).

In the several meetings which took place, particular attention was given to the question of how to allocate a fair share of the indirect production costs to the cost of a product. The final method which was selected - i.e. based on single dose units and not on individual units - constitutes an important stepping-stone, when compared against current practices in the country.

The planning model described at Annex II was developed by the UNIDO's consultant with inputs provided by INPHARMA' sales staff during the final week.

Finally, the planning model described at Annex III aims at analysing in detail INPHARMA's full cost structure, is based

partially on annex II, and represents the key findings of the work conducted by the UNIDO's consultant.

For example, the two columns called "Wholesaler Prices" illustrate, firstly the prices which can be practiced at INPHARMA based on a mark-up of 20 % (on full cost); and the equivalent prices practiced in the Portuguese market, for comparison purposes.

The column "Unit Margin" is simply "Wholesaler price" less "Direct Cost".

The column "Total Production Costs" is simply the sum of column "Direct Product Cost" with "Indirect Production Cost", on a unitary basis.

The column "Fixed Costs" includes all types of costs - and not industrial costs alone - also on an unitary basis.

The last three columns illustrate the same sort of concepts, but already incorporating the impact of the total packs which INPHARMA anticipates to sell next year, and which are shown at Annex II.

Concerning the issue of price setting, annex III also illustrates how the traditional mark-up pricing method operates. Although the UNIDO's consultant did not recommend to reject it outright, he pointed out the advantages for INPHARMA to adopt other, more sophisticated methods - such as going-rate pricing, sealed-bid pricing and perceived-value pricing.

Finally, the last two days' work were spent training the INPHARMA selected sales executive in the use of these new, modern techniques, and in particular how to conduct in the future sensitivity analysis.

III. COST CONCEPTS AND SYSTEMS

As several specific terms will be used often throughout the whole report, and as they are not always necessarily present in everybody's minds when reference is made to them, we thought it appropriate to define them beforehand.

Direct Production Costs are all those that actually become part directly of the finished product, and as such are exclusively imputed to such product.

They include not only Direct Material Costs - which are those active ingredients, excipient and packaging materials that are to be distinguished from supplies or indirect materials, the latter being used in the production process but not in the product itself - but also Direct Labour Costs - which are those that can be specifically traced to or identified with the product, such as the wages of workers who assemble parts into a finished product, or who operate machines in the process of production.

Prime Cost is defined as the sum of direct labour cost and direct material cost.

Indirect Production Cost (or Overhead Costs) includes all production costs other than direct material and direct labour. One of its elements is indirect labour, which represents the earnings of employees who do not work directly on a single product but whose efforts are related to the overall process of production. Another element is indirect material costs, as well as services such as heat, light, power, maintenance, depreciation, taxes and insurance related to assets used in the production process.

Pull Production Cost (or Inventory Cost) is the sum of direct material, direct labour, and indirect production costs. It is the cost at which completed goods are carried as inventory and the amount that is shown as cost of goods sold when the goods are sold.

Note that the cost at which goods are carried in inventory does not include distribution costs, or those general and administrative costs that are unrelated to production operations. It includes only the costs that are incurred "up to the factory exit door".

The full cost of producing goods is the sum of the direct costs of these goods plus a fair share of the indirect costs incurred for the production of these and other goods. However, in practice Cost Accountants often use the term "full cost" to mean only "full production cost".

Variable Costs are items of cost that vary directly and proportionately with volume. Direct material, direct labour, lubricants, power cost and supplies are examples of variable costs.

Semi-variable Costs are those that do no vary entirely as a function of fluctuations in volume (although they do vary in the same direction). For example, earnings of Medical Representatives, maintenance and clerical costs, etc.

Fixed Costs are those costs that do not vary at all with volume (or do not "automatically" change with volume). For example, insurance, building depreciation, property taxes, supervisory salaries and occupancy costs (heat and light).

Direct Cost versus Variable Cost

It is important to stress the fact that much confusion between direct and variable costs normally exists in practice, because many costs that are direct to the product are also variable with the production volume of the product.

As a result, people tend to use the words "direct" and "variable" interchangeably, as well the terms "indirect" and "fixed" as synonyms, when they are not!

However, the two sets of terms are based on very different concepts: the direct/indirect dichotomy relates to the traceability of costs to cost objectives, whereas the variable / fixed dichotomy relates to the behavior of costs as volume fluctuates.

JOB-ORDER COSTING AND PROCESS COSTING

There are two fundamental classifications of costing systems:

- in unit production, where the focus of activity is a physically identifiable job, a job-order cost system is normally adopted; and
- in process production, where outputs are not identifiable as individual units of product until late in the production process (such as in the production of chemicals), a process cost system is normally adopted.

In this latter case, one may calculate the costs for the period, and indirectly, knowing what the production is for the period, unit average costs might be obtained by taking those total costs and dividing them by the number of units / doses produced in the same period.

IV. COST MEASUREMENT (IN A PROCESS COST SYSTEM)

1. Measurement of Direct Labour Costs

Here, one has to measure the <u>quantity</u> of labour time expended, and ascertain the <u>price</u> per unit of labour time.

Measuring the quantity of labour time is normally conducted through a daily timecard, which is usually kept for each direct worker, and on it a record is made of the time the worker spends on each cost centre.

Pricing these labour times is normally conducted on the basis of on average labour rate for all the direct labour employees in a department of a given skill classification, irrespective of whether there is variation in the actual rates paid to employees in any given category. All other labour-related costs paid by the employer - such as pension contributions and other fringe benefits - may be treated as part of indirect (production) costs, although accuracy can be gained by treating them is direct costs.

2. Measurement of Direct Material Costs

The measurement of direct material cost also has the two aspects of the <u>quantity</u> of material used and the <u>price</u> per unit of quantity.

The quantity is usually determined from requisitions that are used to order material out of the storeroom and into production. Material may be priced at solely its purchase or invoice cost, or there may be added some or all of the following material-related costs, such as inward freight, inspection costs, moving costs, purchasing department costs and interest and space charges associated with holding material in inventory.

3. Allocation of Indirect Production Costs

The cost of a product includes, in addition to its direct costs, a <u>fair share</u> of the indirect costs that were incurred for several products. For this purpose, indirect production costs have to be allocated to products by means of an overhead rate. Usually this rate is established annually, prior to the beginning of the accounting year.

In a cost accounting system, items of cost are first accumulated in cost centres, and then they are assigned to products. There are two types of cost centres: production cost centres and service cost centres.

For example, at Laboratorios INPHARMA one may identify the following production cost centres for tablets and capsules:

- 1. Washing
- 2. Filling up
- 3. Labelling
- 4. Coding and creation of the cardboard
- 5. Packaging
- 6. Drying

All other cost centres are service cost centres. The maintenance department and the general factory office are examples.

The allocation of indirect production cost to final products may involve three steps:

- 1. All indirect production costs for an accounting period are assigned to the service and production cost centres.
- 2. The total cost accumulated in each service cost centre is reassigned to production cost centres.
- 3. The total indirect costs accumulated in each production cost centre, including the reassigned service cost centres, are allocated to final products.

Normally, this final step is conducted, calculating firstly the total equivalent units of production (i.e. single dose units) for the period in question, and the total indirect production cost is divided by the number of single dose units; this gives the unit indirect production cost for each product.

A simpler and better way of allocating indirect production costs at Laboratorios INPHARMA is to establish an overhead rate in advance, usually once a year, and then to use these predetermined overhead rates throughout the year.

Furthermore, calculating an estimated annual overhead rate (per single dose unit) in advance is preferable to computing an actual rate at the end of each month, for three reasons:

- If overhead rates were computed monthly at INPHARMA, they would be unduly affected by conditions peculiar to that month, and misleading information on indirect production costs would be presented if the indirect production costs assigned to products were affected by these fluctuations;
- 2. The use of a predetermined overhead rate (pcr single dose unit) will permit INPHARMA to calculate more promptly product costs. Direct material and direct

labour costs can be assigned to products as soon as the time records and material requisitions are available. If, however, overhead rates were calculated only at the end of each month, indirect production costs could not be assigned to products until after all the information on indirect production costs for the month had been assembled. With the use of a predetermined overhead rate (per single dose unit), indirect costs can be allocated to products at the same time that direct costs are assigned to them.

3. Calculation of an overhead rate (per single dose unit) once a year requires less effort (and money) than going through the same calculation every month.

The correct procedure for establishing predetermined overhead rates (per single dose unit) is to base the activity levels and costs on what are <u>estimated to be</u> during the coming year, rather than what they <u>actually were</u>.

Finally, with this selected methodology, the question of underabsorbing or over-absorbing indirect production costs must obviously be placed at INPHARMA, as the amount of indirect production costs "absorbed by" products in a given month is likely to differ from the amount of indirect costs actually incurred in that month.

This is because the actual activity level for the month is likely to be different from the estimates that were used when the predetermined overhead rate (per single dose unit) was calculated.

If the amount of the indirect cost absorbed by products exceeds the amount actually incurred, indirect production costs are said to be <u>over-absorbed</u>; and if the amount is less, indirect production costs are <u>under-absorbed</u>.

From a cost accounting point of view, these discrepancies should be treated in an Overhead Variance account.

V. INTERNAL FULL COST STRUCTURE AT INPHARMA

At Annex I, what we have done was to estimate the cost structure for Laboratorios INPHARMA, broken down into industrial costs, general and administrative costs and marketing costs, during the planning period 1994 to 1997.

The structure of accounts we have considered was taken directly from the official Plan of Accounts approved in the country.

The cost breakdown was based on the following concepts:

Industrial costs are the sum of direct material, direct labour and indirect production costs - as we have already seen in Chapter 3 above. We have estimated them to be 20 136 C.V. Contos for next year. (See Annex I, page 2).

Marketing costs cover marketing management, advertising, sales promotion, public relations, medical representatives' compensation and expenses, warehousing finished goods, billing costs and transportation costs. We have estimated them to be 22 155 C.V. Contos for 1994. (See Annex I, page 3).

General costs are all costs incurred in the general and executive offices. We have estimated them to be 2 698 C.V. contos for 1994. (See Annex I, page 4).

Administrative costs cover all items not included in the above categories: research, development, and engineering costs, donations and miscellaneous items, and may include the cost of interest on borrowed funds. We have estimated them to be 22 155 C.V. Contos for next year. (See Annex I, page 5).

The Full Cost of Product is simply the sum of all the cost elements described above. For 1994, we have estimated them to be 46 501 C.V. Contos. (See Annex I, page 1).

Note: however, in practice cost accountants often use the term "full cost" to mean only "full production cost".

For the following two years (i.e. 1995 and 1996), we have simply assumed that all costs will grow by an average of 6 % per year.

VI. PLANNING SALES, COST OF SALES AND OVERHEADS AT INPHARMA

Annex II allows us to plan sales for next year for individual products, per pack size, for both the public and the private sector, in the generics (national) market. The sales input figures per pack size were supplied by the INPHARMA' sales executive, Mr. M. Elesio Silva.

No figures were supplied for the export market, because it was assumed that all production in year 1 will be channelled to the local market / EMPROFAC.

As it would not make sense to add packs of different sizes, what the UNIDO's consultant has done was to convert all different packs to a common denominator - called the total equivalent units of production - which in our case corresponds to the "Single Dose Units" column.

We have estimated that the total equivalent units of production will be 34.5 million single dose units during 1994, broken down as follows (see annex II):

- for tablets and capsules, they will be almost 19 million single dose units (one tablet is equivalent to one single dose unit);
- 2) for drops they will be about 1.2 million single dose
 units / ml;
- for syrups they will be 7.5 million single dose units (five ml are equivalent to one single dose unit);
- for all other liquids, they will be about 1.7 million single dose units (ten ml are equivalent to one single dose unit);
- 5) for ointments and creams they will be 4.8 million single dose units / gr.; and
- 6) for suppositories they will be 400 000 single dose units.

As the indirect production costs for next year have been estimated to be 20 136 contos C.V. (see Annex I, page 2), the indirect production unit cost for each individual product during 1994 will be 0.583 per single dose unit.

This predetermined overhead rate for the whole of next year is then allocated to each individual product according to its pack size (see Annex III. column "Indirect Production Costs. in C.V. Escudos per pack size").

The function of the overhead rate is to allocate an equitable amount of indirect cost to each product.

At Laboratorios INPHARMA, and because we have chosen the "single dose unit" as the main allocation criterion, a product served in a pack size of, say 1000 tablets, should absorb indirect costs twice more than a product served in a pack size of 500 tablets (compare for example, the indirect production cost of Cimetidine 400 mg, pack of 1000, i.e. 583\$31, against the one for Chlordiazepoxide 10 mg, pack of 500, i.e. 291\$65).

This obviously raises the question of why, in all fairness, should one product have a higher indirect cost than another product? Well, depending on the circumstances, the following are among the plausible answers to this question:

- 1. Because more labour effort was expended on one product than on another, and indirect costs are presumed to vary with the amount of labour effort.
- 2. Because one product used more machine time than another, and indirect costs are presumed to vary with the amount of machine time.
- 3. Because one product had higher direct costs than another and was therefore able to "afford" a higher amount of indirect costs.

The next column - i.e. "Total Production Cost" - is obviously the sum of the column "Direct Production" with the column "Indirect Production Cost". For example, for the first product in the map, 291\$07 plus 583\$31 gives 874\$38 for total production costs..

Important Note: the column called "Unitary Full Cost" in the maps supplied in Cape Verde by the UNIDO's consultant, have included all costs (i.e. industrial, distribution, general and administrative costs), for the sake of simplicity, to facilitate the imminent process of negotiations on pricing policies between INPHARMA and EMPROFAC. However, from a technical point of view, the allocation criterion described above (i.e. the "single dose unit"), should be applied solely for indirect production costs (and not for full costs). See also Chapter 8 below, concerning the selection of an appropriate pricing method.

VII. PRICE LEVEL OF DRUGS IN THE INTERNATIONAL MARKETS

Firstly, a preliminary analysis was conducted - which was based on a report provided by the UNIDO's pharmaceutical consultant, Mr. Juarez Hygino - aiming at ascertaining what prices are currently practiced by international wholesaler drug organizations (such as Medco, I.D.A., Unicef, Rhodesian Drug Services, and Eastern Caribbean Drug Services), concerning Cape Verde 's essential drugs list.

The INPHARMA Managing Director's comment about this preliminary analysis was that the quality standards of some of these organizations were too soft, and this is the reason why they could practice such low prices for generics.

Then, it was suggested to UNIDO's consultant to use in his analysis the prices which are currently practiced in LABESFAL's market, i.e. Portugal.

Column 4 in Annex III illustrates the analysis we have conducted in this regard: firstly, prices to the consumer were converted to wholesaler prices (at the rate of 1.20), the exchange rate used for the Portuguese escudo was 0.5, price increases for the current year were assumed to be 5.5 % and finally a common denominator was adopted as far as pack sizes is concerned, to allow direct comparisons.

While the values we have taken for column 4 were solely based on market considerations, column 3 in Annex III was based on internal cost considerations: here, wholesaler prices in the national market were assumed to be based on a markup of 20 % on total fixed costs.

When one compares wholesaler prices in the national market against the ones practiced in the Portuguese market, the results confirm that a markup of 20 % on INPHARMA's total production costs is competitive. Nevertheless, it is important to highlight that the prices of drugs in Portugal are generally inflated, because only in this current year generic manufacturers have been allowed to enter in the market.

The last three columns of Annex III summarize sales, cost of sales and margins, in CV contos, based on the total number of packs estimated to be sold for individual products (see Annex II. second last column).

The column "Total sales" is the result of the multiplication between total packs to be sold and their respective wholesaler prices. Its total estimated value for 1994 is 119 425 CV contos.

The column "Cost of sales" results from the multiplication of total packs to be sold with their respective "Direct production

costs". Its estimated value for next year is 53 020 CV contos.

Finally, the column "Total Margin" results from multiplying the column "Unit Margin" with the column "Total packs sold" in Annex II. Its estimated value for 1994 is 119 425 less 53 020, or 66 405 CV contos (see Annex III, page 3).

Now, if one deducts from the Total Margin all estimated Fixed Costs (i.e. 46 501 CV contos), the remaining represents INPHARMA's estimated Net Profits before taxes for 1994, i.e. 19 904 CV contos.

VIII. SELECTING A PRICING METHOD AT INPHARMA

In general terms, there are three major considerations in price setting:

- i) full costs set a floor to the price;
- ii) competitors' prices and the price of substitutes provide an orienting point that the company has to consider in setting its price; and
- iii) customers' assessment of unique product features in the company's offer establish the ceiling price.

1. Mark-up pricing

The most elementary pricing method is to add a standard markup to the cost of the product, to cover the cost of producing, distributing and selling the product, including a fair return for its effort and risk. To illustrate markup pricing, let us take as an example the product Amoxicillin 250 mg oral suspension, pack of 100 ml. (see Annex III, page 2, section Syrups, 1st line):

Variable cost: 94\$05 CV per pack of 100 ml.

Fixed cost: 46 501 000 \$ CV

Expected single dose unit sales: 34 520 400

As the pack has 20 single dose units (5 ml. are equivalent to one dose), we have:

46 501 000 Fixed cost: ----- * 20 doses = 26\$94 (per pack) 34 520 400

Therefore, INPHARMA's unit total cost for this specific product is given by:

Unit total cost: 94\$05 + 26\$94 = 120\$99

Now if one assumes that INPHARMA wants to earn a 20 per cent markup on costs, the total selling price will be 145\$18 (see column 3, Annex III).

The question is whether the use of standard markups to set prices make logical sense! In our opinion, generally no! This is because any pricing method that ignores current demand, perceived value of the product and competition is not likely to lead to the optimal price. Suppose that INPHARMA sells only 15 000 packs instead of the planned 30 000. Then the unit cost would have been

higher, since the fixed costs are spread over fewer units.

Mark-up pricing only works if that price actually brings in the expected level of sales (in our example, 30 000 packs for "Amoxicillin 250 mg oral suspension" and 34.5 million single dose units for the whole year).

Still, mark-up pricing remains popular everywhere for a number of reasons:

- 1. Sellers have more certainty about costs than about demand By tying the price to cost, sellers do not have to make frequent adjustments as demand changes.
- 2. Where all firms in the industry use this pricing method, their prices tend to be similar.
- 3. Many people feel that cost-plus pricing is fairer to both buyers and sellers, particularly in the pharmaceutical industry, where sellers could take advantage of buyers when the latter's demand becomes acute.

2. Going-rate Pricing

In going-rate pricing, INPHARMA would base its prices largely on competitors' prices, with less attention paid to its own cost or demand. INPHARMA might obviously charge the same, more, or less than its major competitor(s). In the international generics market, firms normally charge virtually the same prices, with the smaller firms "following the leader(s)". Normally, the smaller firms change their prices when the market leader's prices change rather than when their own demand or cost changes.

Going-rate pricing is quite popular, because the going price is thought to reflect the industry's collective wisdom as to the price that would yield a fair return and not jeopardize industrial harmony.

3. Sealed-bid Pricing

In this situation, INPHARMA bases its prices on expectations of how competitors will price rather than on a rigid relation to the firm's costs or demand. Here, INPHARMA will want to win the contract, and winning normally requires submitting a lower price than competitors - as it recently occurred in the bid for supplying the military in Angola.

Yet INPHARMA cannot set its price below a certain level. It cannot price below cost without worsening its position. On the

other hand, the higher it sets its price above its costs, the lower its chance of getting the contract.

The net effect of the two opposite pulls can be described in terms of the bid's expected profit (see Table below).

INPH BI	ARMA D	'S		PHARI PROF				KPECTI PROFI				
US \$	500	000		180	000\$	CV	0.50			90	000\$	CV
us \$					000\$		0.25				000\$	
US \$	700	000	3	600	000\$	CV	0.20		>	720	000\$	CV
US \$	800	000	4	410	000\$	CV	0.05			220	050\$	CV

Suppose a bid of \$ 500 000 would yield a high chance of getting the contract, say, 50 %, but only a low profit, say 180 000\$ CV. The expected profit with this is therefore 90 000\$ CV. If INPHARMA bid US \$ 800 000, its profit would be 4 410 000\$ CV, but its chance of getting the contract might be reduced, say to 5%. The expected profit would be only 220 050\$ CV.

One logical bidding criterion would be to bid the price that would maximize the expected profit. According to table above, the best bid for INPHARMA would be US \$ 700 000, for which the expected profit is 720 000\$ CV.

Using expected profit as a criterion for setting prices makes a lot of sense if one expects INPHARMA to make many bids. In playing the odds, INPHARMA will achieve maximum profits in the long run. However, if it bids only occasionally or if it needs a particular contract badly will not find it advantageous to use the expected-profit criterion.

4. Perceived-value Pricing

An increasing number of companies with sophisticated marketing practices are basing their price on the product's perceived value. The key to this method is to accurately determine the market's perception of the offer's value (i.e. products and the image of the company as a whole).

Market research is needed to establish the market's perception of value as a guide to effective pricing. However, it can safely be said that pharmaceutical customers value highly criteria such as "superior reliability", "superior durability", "longer credit terms", "shorter time deliveries", etc. - to such an extent that

premium prices may sometimes be practiced in relation to the competition, without adversely affecting the sales volume.

Normally, the adoption of perceived-value pricing is preceded by the creation of generic brand names, to allow product differentiation based on considerations other than price.

IX. RECOMMENDATIONS

Having in mind INPHARMA's present initial stage of development and high growth potential, the UNIDO's consultant strongly believes that the major priorities for INPHARMA at this stage are to ensure that the unit being built becomes efficient and with a competitive cost structure that will allow it at a much later stage to conduct successful experiments in the international pharmaceutical marketplace.

Therefore, what we recommend is to conduct activities in the areas of cost and management accounting, namely:

- to assist in the implementation of an appropriate process costing system, based on the general guidelines of this report;
- 2) to design and assist in the implementation of an adequate budgeting and planning system;
- 3) to design and assist in the implementation of a standard costing system;
- 4) to design and assist in the implementation of responsibility centres.

In the area of computerized information systems, we recommend providing support in the implementation of functional packages - such as Stocks, Salaries, Accounting, Invoicing, Management of Suppliers and Customers, etc - as well as in assisting with the appropriate organizational adjustments that have to take place when such new computerized systems are implemented.

In the area of training, we recommend assisting INPHARMA' selected staff with the use of personal computers, in particular with Windows-based spreadsheet and wordprocessing software, and their impact on productivity in the office.

From a marketing point of view, and having in mind that INPHARMA has got virtually guaranteed the internal market - via its major customer and shareholder EMPROFAC - we only envisage major consulting activities to be undertaken in this regard at a much later stage in its development (in year 3).

_C3]E	ACCOUNT NAME	1902	1993	(994	1995	1996	1997
	GOODS SUPPLIERS						
	Water	285	į.	390	413	438	464
	Energy	5 40	{	1 500	1 590	1 685	1 7B1
	Fuel & Oil	31	i	800	212	225	231
6314	Repair & Mainten (Goods)	103	i	150	159	169	17
	Tools (w/ short life-span)	4		20	21	5.5	8
	Office Supplier	139		500	218	825	23
	Advert & Sales Promot (Goods)	0		50	53	58	8
	Other Suppliers	204		300	318	337	35
<u>631</u>	JATOT-BUR	1 307		2 810	2 979	3 157	3 34
	SERVICE SUPPLIERS (II)						
6321	Rente & Leasing	0	i	0	0	0	
	Entertainment expenses	0	1	80	64	87	7
6323	Repair & Mainten (Services)	134	[150	159	169	17
6324	Communications	89	}	800	836	674	71
	Insurance	240	i	900	954	1 011	1 07
6326	Advert & Sales Promot (Serv.)	33	į	150	159	169	17
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E 33	SERVICE SUPPLIERS (I)			, description to the control of the			
6331	Goods transport	50	i	0	0	0	
	Staff transport	42	}	300	318	837	3.5
	Lodging, meals & transport	121	ì	500	B30	882	5.9
	Fees	180		240	254	270	5.5
	legal costs	0	į	0	0	0	
	Other services	656		50		56	
633	SUB-TOTAL.	1.051	Ö	1 090	1 155	1 225	1 29
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	Overtime & others	1 730	l	970	1 028	1 090	1 15
	Employer's contributions	1 171		1 16B	1 238	1 312	1 39
	Saff training	73	į	100	106	112	11
	Staff Insurance	153	i	200	212	225	29
	Sundry staff gosta	64		100	108	112	
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<u>7</u>	SUNDRY COSTS	200		100	106	112	
	SHOISINGS & PROVISIONS	7 737	F: 19. 191-400 **********************************	11 570	12 264	13 000	13 78
er en d'Art	TOTAL	SB 606		48 501	19 291	52 24B	55 38

CODIGO	INDUSTRIAL COSTS	1992	1993	1994	1995	1996	1997
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6311	Water	i	ì	300	318	337	357
	Energy			1 100	1 166	1 236	1 310
	Fuel & Oil				0	0	0
	Rapair & Mainten (Goods)			150	159	169	179
	Tools (w/ short life-span)	ł		20	21	88	24
	Office Supplies	l'	ł	~]	70	~ 1	6
	Advert & Bales Promot (Goods)	ŀ		į	اة	١٥	ŏ
6918	Other Suppliers	ì			ŏl	5	ŏ
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	SERVICE SUPPLIERS (II)		-				
6321	Rents & Leasing	1		j	0 1	١٥١	0
	Entertainment expenses		1	ì	Ō	ŏl	
	Repair & Mainten (Services)	}	ļ	150	159	169	179
	Communications	}			0	0	Ō
6928	Insurance		1		0	o l	Ō
j 6326	Advert. & Sales Promot.(Serv.)		į	j	O (ō l	0
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898	JATOT-BUE			180	159	169	179
	SERVICE SUPPLIERS (I)						
	Goods transport	}	ļ		0	0	0
	Staff transport				0	0	0
	Lodging, meals & transport			Í	0	0 }	0
	Feca	1			0	o l	o
	Legal costs				0	0	Ò
6938	Other services						
633	SUB-TOTAL						
63	TOTAL		1.0	1 720	1.883	1 933	2 049
	Indirect & Direct Taxes		IN ALTERNATION				
	STAFF COSTS						
	Salaries - Management	. [1		0	0 }	0
	Wages & salaries	İ	i	4 849	5 140	5 44B	5 775
	Overtime & others			970	1 028	1 090	1 155
654	Employer's contributions	j	j	727	771	B17	868
€55	Staff training	}	Į.		0	0	0
687	Staff Insurance	1	1	800	212	825	238
	Sundry staff costs			100	106	112	119
65	TOTAL			6 846	7 257	7 890	B 154
67	IFINANCIAL COSHS						
60	ISUNDRY COSTS						
69	DEPROMATION & PROVISIONS			11 570	12 284	13 000	13 7B0
		0	0	20 136	21 344	22 825	23 982

CODIGO	MARKETING COSTS	1992	1993	1994	1995	1996	1997
631	GOODE SUPPLIERS						
6311	Water	ł		1	0	0	0
6912	Energy			100	106	112	119
6313	Fuel & Oil	1			0	0	0
6314	Repair & Mainten (Goods)			į	0	0	٥
6315	Tools (w/ short life-span)	i			0	0	C
	Office Supplies				0	0 1	(
	Advert & Sales Promot (Goods)			50	53	56	61
	Other Suppliers				0	0	
631	SUB-TOTAL			150	159	169	17
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	Insurance				0	0	
	Advert & Sales Promot (Serv.)			150	159	189	17
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	Lodging meals & transport			200	212	225	23
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	Legal costs		ļ		ŏ	ŏ	
	Other services	1		l	ŏ	ŏl	
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63	TOTAL			600 800	636	674	71
	Indirect & Direct Taxes						
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	Overtime & others			, , ,	0.70	0	
	Employer's contributions	1	1	119	126	134	14
	Staff training		Ì	***	1~0	*57	
	Staff insurance	ļ	,		6	ŏ	
	Sundry staff costs	l	l		ŏ l	, i	
65	TOTAL			912	987	1 025	1 08
<u>P3</u> _	FINANCIAL COSTS		+				
	SUNDRY COSTS						
90	DEPROCIATION & PROVISIONS						

CODIGO	GENERAL COSTS	1992	1993	1994	1995	1996	1947
	GOODS SUPPLIERS						
	Water	ì		400	0	0	0
	Energy	1	Ĭ	100	106	112	1113
	Fuel & Oil	{		500	212	225	83 B
	Repair & Mainten (Goods)		į .	1	0	0 1	0
	Tools (w/ short life-span)	1	}	50	53	0	0
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	Other Suppliers				<u></u>		<u></u>
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		ł	1				
	Rents & Leasing			80	0	0 67	0
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	Repair & Mainten (Services)	{	ď	100	106	112	7139 O
		ļ	1	100	100		
	Insurance	i			0	0	0
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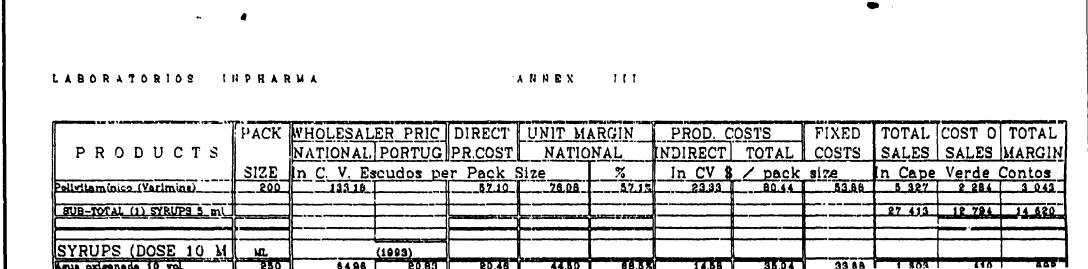
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TABLETS & CAPSULES Acido Acetilælicilico 500 me Acido Acetilælicilico 500 me Acido Acetilælicilico 500 me Acido Acetilælicilico 500 me Acetilælicilico 500 me Ambicilina 250 me Ambicilina 250 me Ambicilina 500 me Ambicilina 600 me A	PACKS PACKS 1 300 97 890 320 12 520 23 520 400 18 932 325 1 188 188 60 60 3 888 30 300 7 400 17 232	S PACKS PACKS O O O O O O O O O O O O O O O O O O	PACKE 0 97 890 12 528 23 520 18 992 0 1 188 0 0 680 3 888	PACKS 1 900 0 0 300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PACKS 1 300 97 890 320 12 828 23 520 400 18 992 328 1 188 60 660 3 888 300 300 400 17 232	UNITS 1 300 000 2 244 560 320 000 300 C72 564 480 300 000 455 508 260 000 35 640 76 200 60 C00 15 840 30 000 150 000
Acido Acetilmalicilico 500 ms	1 300 97 990 320 12 520 23 520 400 18 982 3 25 1 188 60 60 60 60 3 686 30 30 300 400 17 232 10 000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 07 890 12 828 23 820 0 18 992 0 1 188 0 0 0 680 3 888 0	1 300 0 320 0 400 325 0 158 60 0 30 400	1 300 97 890 12 528 23 520 400 18 992 325 1 188 60 660 3 888 300 400 17 232	1 300 000 2 344 560 320 000 300 672 564 480 309 000 455 808 260 000 35 640 76 200 60 000 15 840 115 840 30 000 150 000 150 000
Acido Acetilizalicilico 500 me 1 000 1 300 Acido Acetilizalicilico 500 me 24 27 690 Ampicilina 250 me 1 000 320 Ampicilina 250 me 24 12 528 Ampicilina 500 me 24 33 520 Ampicilina 500 me 24 33 520 Ampicilina 500 me 24 18 922 Ampicilina 500 me 30 18 922 Ampicilina 500 me 30 1 180 Carbamazanina 200 me 30 1 180 Carbamazanina 200 me 400 188 Caloramphenicol 250 me 30 3 888 Caloramphenicol 250 me 30 3 888 Cimetidina 400 me 30 3 888 Cimetidina 400 me 30 3 888 Cartimozanic 400 80 me 30 17 232 Cartimozanic 400 80 me 30 17 232 Cartimozanic 400 80 me 30 17 232 Cartimozanic 400 80 me 30 2 172 Diazana 10 me 30 1000 Diazana 10 me 30 1000 Diazana 5 me 30 18 030 Cartimozanic 5 me 30 18 030	97 990 320 12 520 23 520 400 18 292 325 1 188 60 60 60 3 686 30 30 300 7 400 17 232 10 000		07 8 90 0 0 12 52 5 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 300 0 320 0 400 325 0 158 60 0 30 400	1 300 97 890 12 528 23 520 400 18 992 325 1 188 60 660 3 888 300 400 17 232	1 300 000 2 344 560 320 000 300 672 564 480 309 000 455 808 260 000 35 640 76 200 60 000 15 840 115 840 30 000 150 000 150 000
Acido Acatilm lichico 300 ms	320 12 520 23 520 400 18 902 325 1 188 60 0 60 3 686 30 300 400 17 232 10 000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 B2B 23 B20 0 1B 992 0 1 1BB 0 0 0 0 880 3 B8B	320 0 400 0 325 0 168 60 0 0 300 400	320 12 828 23 520 400 18 992 1 168 1 168 60 660 3 888 300 400 17 232	2 344 560 320 000 300 672 564 480 300 000 455 808 260 000 33 640 76 200 60 000 15 840 115 840 30 000 150 000 150 000
Ambicilina 250 ms	320 12 520 23 520 400 18 902 325 1 188 60 0 60 3 686 30 300 400 17 232 10 000	0 0 0 0 0 0 0 0 0 0 0	12 B2B 23 B20 0 1B 992 0 1 1BB 0 0 0 0 880 3 B8B	0 0 400 325 0 168 60 0 0 30 400	12 528 23 520 400 18 992 325 1 168 168 60 660 3 688 30 300 400 17 232	320 000 300 672 564 480 300 000 455 808 260 000 35 640 76 200 60 000 15 840 115 840 30 000 150 000
Ampicitina 500 mg	23 520 400 18 282 325 1 188 188 60 0 60 3 888 30 300 400 17 232 10 000	0 0 0 0 0 0 0 0 0 0 0	23 520 15 992 0 1 155 0 0 650 3 555 0	400 0 325 0 168 60 0 0 30 300	23 520 400 18 992 328 1 168 168 60 60 488 30 30 400 17 232	554 480 300 000 455 808 260 000 35 840 76 200 60 000 15 840 30 000 150 000 400 000
Ampirina Infantil 150 ms 24 18 222 Ampirina Infantil 150 ms 800 325 Ampirina Infantil 150 ms 800 325 Carbamazzoina 200 ms 400 188 Carbamazzoina 200 ms 400 188 Chioramphenicol 250 ms 1 000 50 Chioramphenicol 250 ms 24 890 Chioramphenicol 250 ms 29 898 Cimetidina 400 ms 30 3 888 Cimetidina 400 ms 1 000 300 Carlimozzois 400 80 ms 1 000 400 Carlimozzois 400 80 ms 30 17 232 Camblezo Vilaminicol B 20 10 000 Diazzoza 10 ms 30 2 172 Diazzoza 10 ms 30 18 030 Diazzoza 5 ms 30 18 030 Diazzoza 5 ms 30 18 030 Diazzoza 5 ms 20 2 170 Canobarbital 100 ms 1 000 2 30 Canobarbital 100 ms 1 000 2 30 Canobarbital 100 ms 1 000 1 170 C	400 18 202 325 1 108 188 60 60 3 860 30 30 400 17 232 10 000	0 0 0 0 0 0 0 0 0	18 992 0 0 1 188 0 0 0 660 3 888 0 0	400 0 325 0 168 60 0 0 30 300	400 18 992 325 1 168 168 60 660 3 660 3 0 30 400 17 232	30 0 000 455 808 260 000 35 840 76 200 80 000 15 840 30 000 150 000 400 000
American Infantil 150 ms	18 202 325 1 188 188 60 60 3 860 3 0 30 400 17 232	0 0 0 0 0 0 0 0 0	0 1188 0 0 388 0 0	0 325 0 168 60 0 30 300 400	18 992 325 1 168 168 60 660 3 660 3 00 400 17 232	455 508 260 000 35 840 76 200 60 000 15 840 30 000 150 000 400 000
Amirina Infantil 150 ms	325 1 188 188 60 660 3 660 3 00 400 17 232 10 000	0 0 0 0 0 0 0 0 0	0 1188 0 0 388 0 0	328 0 168 60 0 0 30 30 400	328 1 168 188 60 660 3 888 30 300 400	260 000 35 840 78 200 60 000 15 840 30 000 150 000 400 000
Carbomazedina 200 ms	1 1BB 18B 60 860 3 88B 30 300 400 17 232 10 000	0 0 0 0 0 0 0 0 0	1 188 0 0 0 660 3 888 0 0	0 188 60 0 0 30 30 400	1 188 188 60 680 3 888 300 400 17 238	35 840 78 200 80 000 15 840 115 840 30 000 150 000 400 000
Carbamazapina 200 mg	188 60 880 3 886 30 300 400 17 232	0 0 0 0 0 0 0	0 0 660 3 666 0	168 60 0 0 30 300 400	188 60 680 3 688 30 300 400 17 238	76 200 60 000 15 840 116 840 30 000 150 000 400 000
Chioramphenical 250 mg	60 860 3 666 30 300 400 17 232	0 0 0 0 0 0	0 680 3 888 0 0	60 0 0 30 300 400	60 660 3 888 30 300 400 17 238	80 C00 15 840 116 840 30 000 150 000 400 000
Chloramphenicol 250 mg	3 666 30 300 400 17 232	0 0 0 0	3 888 0 0	0 0 30 300 400	3 6 6 8 3 0 3 0 0 4 0 0 17 2 3 2	115 840 30 000 150 000 400 000
Cimetidina 400 ms	3 666 30 300 400 17 232	0 0 0	0	30 300 400 0	3 6 6 8 3 0 3 0 0 4 0 0 17 2 3 2	30 000 150 000 400 000
Co-Trimozatole 400/80 mg	300 - 400 17 232 10 000	, , , , , , , , , , , , , , , , , , ,	0	300 400 0	300 400 17 232	150 000 400 000
Co-Trimozatole 400/80 mg	· 400 17 232 10 000		Ó	400	400 17 232	400 000
Ce-Trimosecole 400/80 mg	17 232	0		0	17 232	
Complexe Vitaminics B 20	10 000		17 E3E			515 95D I
Discoss 10 mg		1				
Diazona 10 mg 1 000 110 Diazona 5 mg 30 18 030 Diazona 5 mg 1 000 240 Dimeticana 40 mg 20 20 20 Panobarbial 100 mg 1 000 170		0	2 172	.10 000	10 000 2 172	200 000
Distense 5 mg 30 18 030 Distense 5 mg 1 000 240 Dimeticens 40 mg 20 20 000 Fanobarbital 100 mg 1 000 170	110			110	110	85 160 110 000
Diazenas 5 ms 1 000 240 Dimeticans 40 ms 20 20 00 Fanobarbital 100 ms 1 000 170	16 036		18 036		18 036	541 080
Dimeticena 40 ms 20 20 000 Fanobarbital 100 ms 170 170	240		0	240	240	240 000
Fenoberblie 100 me 1000 170	20 000	0		20 000	20 000	490 000
	170	<u> </u>	0	170	170	170 000
Fenoberblia) 100 me 30 3 624	3 684		3 824)	3 624	108 720
Fenobarbilal 15 mg 1 000 10	10.		0	10	10	10 000
Emplarbital 50 mc 30 1 584	1_584_		1.59.4		1.584	47 520
Empharbital 50 rae 1 000 110	110	<u> </u>	.	110	110_	110 000
Hidrórido de alumínio 350 mc 1 000 12RV	580	<u> </u>	<u>.</u>	281)	280	280 000
Hidrórido de alumínio 350 me 24 14 848	14.649	<u></u>		 	14.649	351 576
Hydrochlorothlande 50 me 30 14 304	14_804	<u></u>		<u> </u>	14 304	429 120
Hedrochlorothleside 50 me 1 000 350	350	<u> </u>	 	351)	350	350 000
huprofen 200 mg 60 15 000	15 000		<u> </u>	15 000	15 000	900 000
ndometacina 25 ms 20 20 000	<u> </u>		-H	50 000	\$U 000	400 000
Hetoslopramida 10 me 1 000 200 Hetoslopramida 10 me 30 3 912	200 3 9 1 2	0	3 9 12		3 9 1 2	200 000
	480	0		480	480	117 360 230 000
Metronidate 350 mg	13 000	0		380	13 008	390 240
Fereceterno) 500 me 24 104 076	104 076		104 076	3	104 078	2 497 824
Paracetamo 500 ma 1000 600	600			600	600	600 000
Polivitemin'co (Verimine) 20 40 000	40 000	<u> </u>	0	40 000	40 000	800 000

	PACK	B	A	1.	E	S		1	9	Ð	4
PRODUCTS		, NA	TIONAL.	MARKET		EX	PORT		TOT	A L	SINGLE
	SIZE	PRIVATE	PUBLIC	TOTAL	PRIV	PUBL	TOTA	PRIVATE	PUBLIC	TOTAL	DOSE
Prednisolone 5 mg	30	3 984		3 984			0	3 984	0	3 984	119 520
Predvisolona 5 me	1.000			B1)			0_		80	80	80 000
Perceina 0.25 me		QQ_									
Rescreina 0.25 me	1 000			40			<u></u>	<u> </u>	40	40	40 000
Tetracicina 250 mx (clori)	1.000	ļ	1260	500		 			260	260	280 000
retracicina 250 mg (clori)	34	35 172	<u></u>	35 172	 	 	<u>.</u>	35 172	<u> </u>	95 172	844 128
Lit C Acido Assarbico 200 ma	30	31 528	}	21 528			<u> </u>	<u>21_</u> <u>B2B</u>		P1 52B	648 840
Lit C Acido Ascorbico 200 me	600	 	330	300			0_	<u></u>	300	300	180 000
SUB-707AL CAPS& TABS Unita											18 953 888
×			2::::::::::::::::::::::::::::::::::::::	#2551 2535 5.#2				72-12-7; N. 198-197-197-197-197-197-197-197-197-197-197	,	*********	
DROPS	NL	PACK 5 246	PACK	PACK	PACK	PACK	PACK	PACK	PACK	PACE	1 ML
Cloranienical drama auriculating	1.3	5 745		5.7 m				7.41		5 748	57 480
Cloranienical drops auriculares	10		2.4100				<u> </u>	 	2 800	2 800	28 000
Dimelicona drore	13	ļ	נפני פרייי	10.000				∦	10.000	10.000	150 000
Fenilefrina 025 7 drops		0.50.1	T HOU	304			ļ <u>ģ</u> _		2 800	2304	139 560
Fralletrina 0.3 3 droza	15	B 760	000_	13 XEU	} -		<u> </u>		4 000	12 760	191 400
Polivilaminado (Protovila)	18	1	6 000		 	 		11 038	5 000	9 000	90 000 336 640
Pero Pistológico	20 20	11 832	5 000	16 832 9 324	} -	 		9 324	B-000	18 B32 9 324	186 480
VIL C Acido Ascorbico 10 7	<u></u>			X_3.E.3					X_	329	
SUB-TOTAL DROPS (7)							ASTE AL SERVI	*************	ALEXANDER A.T		1 179 580
SYRUPS (DOSE 5 ML)	ML	PACK	PACE	PACK	PACK	PACK	PACK	PACK	PACK	PACK	5 ML
Ampaicilina 250 mg susporal	100		PACE 90 338	30 000	1		0		30 000	30 000	600 000
Benzosto Benzilo	150	8 184	000	8 984		-	0	8 184	800	8 984	289 820
Promezina (190 ml) c/c	100	T	10 000	10 000	I		Ú	0	10 000	10 000	200 000
Bromexine 1100 mll a/c	190	29 736		29 726	T		0	29 798		20 798	595 920
Piperazina	130	9 084		9 OB4	L		0	9 084	Q_	9 084	236 184
Campl B - Ba-Surra	130		20,000	20 000			00	<u> </u>	20 000	20 000	520 000
Patrimoxagol Pedial c/c	100		7 000	7 000	I		0_		7 000	7 000	140 000
Catrimoxacol Pediat s/c	100	22 198		22 188	1		0	22 188	0	22 18B	443 760
Vientiramina Clar 0.28 3	100		17 000.	17 000	ļ			<u> </u>	17 000	17 000	340 000
Difenidramina Clor 028 5		31 800		31 800			<u> </u>			31 800	954 000
Diucosato Ferroso	130	11 640		11,840.	 	4			<u> </u>	11.640	302 640
Mel ropidarole 200 mg			6 000	<u> </u>			0		6 000	6.000	120 000
Prometazina ellete Spie Smil		18 008		18.029			<u>û</u>	118_025_	<u> </u>	18 030	470 400
Prometazina elizit Smacom)			7.000	7.000			ō-	┩ <u>;</u> ₽	7 000	7 000	140 000
Palbutamol 2 me/mi	150_	13_950	<u> </u>	13 255		.	Q.	13.855		13 988	418 680
Esibutamol ? mg/ml	100	H	5 500	5 500	lł.	i	1 0	0	5 500	5 500	110 000

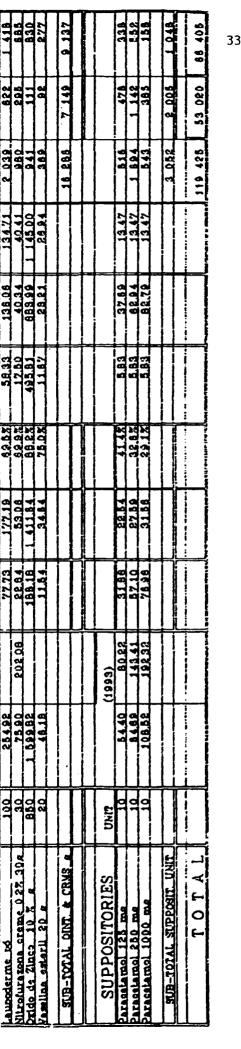
THE PARTY OF THE P	PACK	5	ianameni aasin 11 aliin A	L	E	S		1	9	9	4
PRODUCTS		NA	TIONAL	MARKET	<u> </u>		PORT		TOT	A L	SINGLE
	SIZE	PRIVATE	PUBLIC		PRIV	PUBL	TOTA	PRIVATE		TOTAL	DOSE
Polivilamines (Varimine)	500		412 000	40 000			0	00_	40 000	40 000	1 600 000
SUB-TOTAL (1) SYRUPS 5 mi											7 461 200
The second secon											
SYRUPS (DOSE 10 ML)	ML	PACK	PACE	PACK	PACK	PACK	PACK	PACK	PACK	PACK	10 ML
Agua oxigenada 10 vol Akodi Puro Fra REEMBALAM	250	20 032		20 052 35 568			0			20 052 35 568	50) 300 889 200
Dieo Amend Doces REEMBALAN	250 100	35 560	5 304	8 304			Q			5 304	53 040
Dieo Amend Doces RECHBALAM Proginal Sol. 1 7	55 500	17 304 4 18fi		17 304			0			17 304 4 18B	95 172
SUB-TOTAL (2) SYRUFS 12, mL			-	-	}						1 748 112
OINTMENTS & CREAMS	CR	PACK	PACE 10 000	PACK	PACK	PACK	PACK	PACK	PACK	PACK	1 GR
Acetonito Fluoringiona Syntax Bacitracina+Derminada	30		10 000 15 000	15 000	ļ		0	 	10 000	10 000	300 000 450 000
Ciotrimazol Creme 13	40		80 000	20 000			0	0	80 000	50 000	800 000
Fenilbutanna crema 50mg Heparinóide greme 20g	30 30	13 728 10 696		13 726 10 696		 		13.72B 10.89B	<u></u>	13 72B 10 898	411 B40 217 920
Hidrocortisons crame 13 tube	30 50	13.542	5 000 7 000	19 542 7 000			0	13.542	7 000	19 542 7 000	390 840 350 000
Laupoderme 14 Ala	1,9,0		8 000	1 B 000			<u> </u>	<u> </u>	B 000	B 000	800 (100
hitrofurazona creme 0.25 30s. Drido de Zinco 10 % u	30 650	7 906 286	300	12 206	 			7 90B 286	5 000 300	12 90B 588	387 240 499 800
Vaselina sateril 20 a	30_		1, 220	B 000			<u> </u>		B 000	8 000	160 000
SUR-TOTAL OURT & CRMS R					 	 	 	 			4 757 640
)	Tre Street					
SUPPOSITORIES	UNIT	PACK	PACE	PACK	PACK	PACK	PACK	FACK	PACK	PACK	זיואט
Paracetamo 125 me	10		15.135	15 000		**************************************			15 000	15 000	150 000
Paracetamol 250 mg Paracetamol 1000 mg			\$ 000 5 000	20 000 5 000			8-		20 000 5 000	20 000 5 000	200 000 50 000
SUB-TOTAL SUPPOSIT UNIT											400 000
TOTAL											34 520 400

The second section of the second section of the second section	PACK	WHOLESAL	ER PRIC	DIRECT	UNIT M.	ARCIN	PROD. C	OSTS	FIXED	TOTAL	COST O	TOTAL
PRODUCTS		NATIONAL	A	l i	C'TAN		INDIRECT	TOTAL	COSTS	SALES	l 1	MARGIN
	SIZE	in C. V. Es				%	····	/ pack		In Cape		
TADLETS & CADSUL		NAME OF TAXABLE PARTY.	THE PERSON NAMED IN COLUMN 2 IN COLUMN 2 IN COLUMN 2	The state of the state of		Market and parties at the		- Pack	Anna II M. Anna II uit I i i f		16106	1011(138 - {
TABLETS & CAPSULE	דואט 1 טסט	20%	(1993)			85 RS	·	· 				
Acido Acetilmlicilico 500 me	24	1 965 76	61 19	291.07	1 674 68		58331	874.38	1 347 08	2 5 6 5	36	2 177
Acido Acetilizaticulico 500 me Ampicilina 250 ma	1 000	4 888 95		10.37 2 725 40	2 191.55	73 B7	14.00 583.31	24.17 3 308 71	3233	5 005) 013 872	3 992
Ampicilina 250 me	24	135.31	383 76	80.43	54.88	40.8%	14,00	94 43	3233	1 895	1 006	688
Ampleiling 500 mg	24	20158	540 03	135 66	65.93	32.73	14.00	149 88	3233	4 741	3 221	1 551
Ampicilina 500 me	750	5 66014		3 708.49	1 253.85	345%	437.48	4 149 97	1 01029	2 264	1 63	781
Aspirina infantil 150 mg	24	1921	111.63	8.66	40.53	82.43	14.00	22.68	32.33	835	183	770
Amirina Idlantii 150 ma.	800	1.474.20		151.44	1 923.46	897%	499.85	G10.0B	1.077.63	479	49	430
Carbamatavina 200 mc	30	146.53	261.96	01.70	64 13	442%	17.50	29.19	4041	17.4	37	77
Carbamasabina 200 mg.	400	1.658.64	ļ	B43.3B_		19.28	233.32	1 076 70	138.6%	312_		153
Caleramensuisal 250. mg	1 200	4 188.42		.8 023.33	3 03514	12.33	20331		1-24286	248.	12.5	155
Chleramphonicol, 250, mk	2.4	.114.16	310.00	08.89	5130	45.03	14.00	76.8Q	38.33.	75		139.
Cimetidina 100 me	1 000	4 588 03	8 850 89	2 471 30	05.70 05.73	45.17	17.80 563.31	3 054 61	<u> </u>	500	334	235
Clordingers xide 10 ray	500	1 454 70		538.72	915.98	53.0%	29165	830 37	1 347 06	436	7 <u>4</u> 16 2	275
Co-Trimoxazole 400 /BO my	1 000	2 652.57		863.42	1 769.15	57.4%	583.31	1 446.72	1 347.06	1 081	345	718
Co-Trimox31212 400 40 mu	30	91.71	366.61	36 01	55.70	60.7%	17.50	59 51	40 41	1 5BO	821	950
Complexo Vitamínico B	20	88 66	109 90	46 95	41.72	47.12	11.67	58.61	26 94	887	462	417
Diampen 10 mg	30	6788	11563	18.15	5172	76.2%	17.50	33.65	40 41	147	35	112
Diazenea 10 mw	1 000	2 133 38		430.72	1 702 61	798%	583.31	1 014 03	1 347 06	235	47	187
Diamera 5 mg	30	7169	11)6 15	1933	52 36	73 0%	17.50	38 83	40 41	1 293	343	944
Diamenas 5 mg	1 000	1 80232		154.66	1 647 48	21.43	583.31	738.18	1 347 06	433	37	395
Dimelicona 40 me	20	85.88	73.85	44.64	1126	48.0%	11.87	56.30	25 24	1.718	893	825
Fenoberbital 100 mg	1 000	3 22703		508.80	1 716 23	77.23	58331	1.092.11	1 34706	379	86	292
Fenobarbilal 100 me	30	82.96	15354	2872	5424	65.43	17.50	48.22	49.41	301	204	197
Senoberbile 15 me	1 000	2 535 66		765.99	1 769.67	69.63	563.31	1 349.30	1 347 06	25_	ļ <u>.</u>	18.
Fenobarbita: 50 ms	30	7327	ļ	20.85	5282	71.6X		38.15	4241	116-	33	83
Fenoberbital 50 mg	1 000	2 27728		550.58	1 726 81	75.68	583.31	1 138.98	1 347 06	251	<u>81</u> -	190
<u> Pidrórido de alumínio 350 me</u> Hidrórido de alumínio 350 me	1 000	2 031 19 51 24	89.15	345.60	1 605.59 40.87	83.07 79.67	583.31 14.00	928.91 24.37	1 947 06	569 751	97 152	472 599
Hydrochlorothiaside 50 mg	30	7259	18726	20.03	52.50	72.48	17.50	37.53	40 41	1 038	267	751
Hrdrochlorothiande 50 mg	1 000	1 B65 38	JB-CGB-	20743	1 657.96	689%		790 73	1 347 08	653	73	580
busrolen 200 mg	60	389.74	43211	243.96	145 78	37.48	35.00	278.98	8082	5 846	3 653	2 187
Indometecina 25 mg	20	117.11	156 93	70 65	48.46	39.72	11.67	82.32	26.94	2 342	1 413	929
Metoclopramida 10 me	1 000	2 546.08		774.60	1 77141	39.68	58331	1 357 98	1 347 06	509	158	354
Metoclopramida 10 mg	30	83.35		29.05	54.30	65.13	17.50	48.55	40.41	328	114	212
Metronidatol 250 me	500	1 422 83		512.16	910.67	64.0%	291.65	809.61	973 53	855	235	419
Hetronidazol 250 mg	30	24.58	31650	38.41	56.18	32.4%	17.50	58 91	40.41	1 230	500	731
Paracetaraol 500 me	24	6990	119.74	25.92	43.9B	62.9%	14.00	39.92	32.33	7.275	2 608	4 577
Paracetamol 500 me	1 000	8.718.19		913.05	1 799 OR	66.3%	589.31	1 426 36	1 347.06	1.827	548	1 079
Polivilaminico (Varimina)	20	6379		26 17	37.56	56 9%	11.67	3783	26 94	2 5 4 9	1 047	1 503

province of the second		بالمعادلات التالية والتالية		-				بداخات الله بسيوروب الب		-		
	PACK	WHOLESAL	ER PRIC	DIRECT	UNIT M.	ARGIN	PROD. C	COSTS	FIXED	TOTAL	COST O	TOTAL
PRODUCTS		NATIONAL	PORTUG	PR.COST	NATIC	NAL	INDIRECT	TOTAL	COSTS	SALES	SALES	MARGIN
1	SIZE	n C. V. Es			Size	95	In CV \$	/ pack	9126	n Cape		
Prednisslane 5 me	30	8968	184.95	3432	55 3 6	61.75		5182	40.41	357	1 137	221
Predvisolona 5 me	1 000	2 45020		69478	1 758.43	21.68	583.31	1 278.08	1 347.08	196	56	140
Reserving 0.25 mg	30	8837		18 56	5181	25.83	17.50	3408	40.41			
Rempla 025 mg	1 000	2 14639		441.60	170478	78.4%	503.31	1 024.91	1 347.08	B.6	18	6 B
Tetracicline 250 mg (slori)	1 000	3 81195		1 329.57	1 86238	59.0%	583.31	1 912.88	1 347.08	B35	348	489
Tetraciclina 250 me (clori)	24_	9485	173.42	48.71	48.14	50.8%	14.00	60.71	38.83	3 338	1 643	1.693
VIL C Acido Ascárbico 200 ras	30	73.05		20.48	52.50	72.03	17.50	37.98	40.41	1 573	440	1 132
Vit C Acido Ascorbico 200 inc	600	1 38103		28934	7_051.78_	79.0%	34298	909.33	808.24	384		307
SUB-707AL CAPSA TABS Units	}			 				 -	 	61 773	25 932	35 B41
						ACCOUNT OF THE						
DROPS	ML		(1993)				<u> </u>					
Coranianical drama auriculares	10.	34.26		15_5.0_	12.59	58.3E		2133	13.47	200	89	111
Clorantenical drops auriquiones	10	34.78_		1889_	19.60	35.48	5.83	21.33	13.47	97	4343_	
Dimeticena drora	<u> </u>	10459		88.98	37.84	38.03		75.70	20.21	1.046	570	376
Fenilefrina 0 25 % drops	15	43.17		15.77	27.40	03.58	9.75	24.52	50.51	402	147	285
Feniletrina 05 % drope	15	43.23		15.82	27.41	63.48	8.75	24.57	20.21	882	505	350
Polivilaminado (Protovita)	15	159.64		112.82	48.81	58.33	8.75	121.87	ROPL	958	677	281
Soro Piziológico	50	43.52	04.00	9.33	34.20	76.63	11.67	20.99	26.94	733	157	578
VIL C Acido Ambrbleo 10 3	20_	6728	8132	29.71	38.2%	56.3%	11.67	41.3B	26.94	834	277	357
SUB-TOTAL DROPS mi										4.621	2 252	2 359
				***************************************			 		 	ļ		
SYRUPS (DOSE 5 ML)	HI.		(1993)						 		 	
Amordellina 250 mg susperal	100	145.18	40969	94.08	8114	35.02	11.67	105.71	29.04	4 356	2 821	1 534
Bensoato Bensila	150	85 19	160 69	30.58	54.61	6417		48.0B	40.41	765	275	491
Bromexina (100 ml) c/c	100	81.64	88.58	24.42	37.21	60.47	11.67	38.09	25.04	816	244	372
Bromezina (100 ml) a/c	100	55.44		19.26	36.18	65.32		30.92	26.94	1 852	574	1 078
Piperazina	130	93.29		42.71	50.57	54.27	15.17	57.88	35 02	847	388	459
Compl B - B4-Supra	130	12079	248.73	65.63	55.15	45.73	15.17	80.80	35.02	2 416	1 313	1 103
Cotrimoxazoi Pedial c/c	100	7532	371.45	35.82	39.49	52.43	11.67	47.49	26.04	527	251	276
Cotrimoxagol PediaL a/c	100	8360		28.06	37.54	59.03	11.67	37.73	29.84	1 411	878	833
Difenidramina Clor. 0.26 3	100	68.79		20.35	36.40	6.4.23	11.67	3500	20.04	964	346	619
Difenidramina Clor 0 28 %	150	90 90	65108	35.34	55.54	61.17	17.50	5284	40.41	2 891	1 124	1 767
Oluconato Ferroso	130	99.58		47.98	51.92	5183	15.17	68.15	35.02	1.182	558	801
Metronidasole 200 ms	100	14980		97.89	8191	34.78	11.67	109.56	26.24	829	587	311
Prometazina elizir 3ma 3nu	130	83.79	13751	34.75	46.98	50.57	15.17	49.92	35.02	1.515	829	686
Prometering ellate ame ont.	100		A	28.73	27.6B	70.02	11.87	38.40	26.94	451	187	294
Salbutamol 2 me/ml Salbutamol 2 me/ml	150 100	91.73	284.85	3R 03 24 02	35.70 37.13	60.77	17.50	35 8 9	26.94	1 280 338	503	777
	100	II 8116	I	1 24 1)2	8 371H	• 8D7%	3167	n :45 fl9t	u 2694	1 338	1119	. 204



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Menua oxteenade 10 vol	250	6496	P0.83	E0.46	44.50 I	68.578	14.58	35.04	33.69	1 803	610	895
Kleed Pure Fra REEMBALAM	250	92.65	68.67	49.69	49.18	53.0%	14.58	58.11	33.68	3 696	1.548	1 747
Dies Amend Doces REENBALAN	100	80 28	118.67	37.19	23.60	38.8%	5.83	48.02	13.47	388	197	125
Dies Amend Doces REENBALAM	85	17.50		31.84	15.26	32.4%	3.2.1	35.05	7.41	8.18	551	284
Program Sol 1 %	900	18990	135.42	40.90	00.98	88.5%	29.17	70.07	67.38	544	171	373
SUB-FOLAL (2) SYRUFS 10 ml										87.8	2 878	3 401
							-					
OINTMENTS & CREAK	OR	,	(1993)									
Keelonilo Puocinolona Syntax	30	187.88		10.28	98.35	10.85	17.50	118.78	19.04	1 678	683	683



UNIDO comments on expert mission report

Mr. Bastos Silva's completed his mission to Cape Verde recently. During the mission, he assisted INPHARMA to set-up the appropriate methodology for calculation of cost of production with emphasis on determination of direct labour cost and direct material cost. Special training programme has been organized for national specialists to familiarize them with the recommended methods.

Discussions on the different methods to be utilized for setting up the prices for the production were held with the participation of the managerial personnel of the company. The advantages and disadvantages of the methods were analysed and specific recommendations were given.

During the mission, the expert also trained the personnel on the use of spreadsheet software (Lotus 123) for the calculation of prices of raw materials and packaging materials.

Advise was given on the procedures to be followed for valuation of those equipment to be transferred from the state-owned enterprise EMPROFAC to the newly created company.

The expert made clear to the personnel in-charge of accounting in the company the application of different costing concepts. Advise was given on the identification of different production costs centres in INPHARMA.

The offered technical assistance has been satisfactorily evaluated by national authorities and UNIDO. Samples of performed calculations and utilized methods are attached to the report and it is advisable that the company could be provided with the necessary software and hardware to be utilized on the calculation and determination of stocks of materials, management of suppliers and customers, accounting, etc.